CLAIMS

What is claimed is:

1 1.   A method comprising:

2   transmitting data to at least one client;

3   receiving, from the at least one client, tracked and reported

4 transmitted data errors regarding the transmitting data, based on a path of the

5 transmitting data and at least one of regional factors, dynamic factors, and

6 retransmission factors;

7   identifying the at least one client reporting the transmitted data

8 errors; and

9   analyzing the transmitted data errors.

1 2.   The method of claim 1, further comprising:

2   adjusting error correction based on the analyzing the transmitted

3 data errors; and

4   transmitting data, having an adjusted error correction, to the at

5 least one client.

1 3.   The method of claim 1, wherein the transmitting data comprises

2 broadcasting data, and wherein the receiving tracked and reported transmitted

3 data errors comprises receiving by a broadcast center server.

1 4.   The method of claim 1, wherein the analyzing the transmitted

2 data errors comprises comparing the transmitted data errors to at least one of a

3 predetermined tolerable transmitted data error level and a predetermined

4 tolerable transmitted data error level for a predetermined time period.

1 5.   The method of claim 1, further comprising:

2   assigning a predetermined tolerable transmitted data error level;

3   wherein the receiving tracked and reported transmitted data

4 errors comprises receiving only when one of the transmitted data errors

5 exceeds the predetermined tolerable transmitted data error level and the

6 transmitted data errors exceeds the predetermined tolerable transmitted data

7 error level for a predetermined time period.

1   6.   The method of claim 1, wherein the transmitting data comprises
2   utilizing at least one of wireless conventional ground terrestrial transmission,
3   digital television (DTV) connection, analog and digital cable television (CATV),
4   satellite connection, direct broadcast satellite system (DBS), wide area network
5   (WAN) connection, and formats chosen by the Advanced Television Systems
6   Committee (ATSC) and National Television Standards Committee (NTSC).

1   7.   The method of claim 1, wherein the receiving tracked and
2   reported transmitted data errors comprises utilizing at least one of telephone
3   dial-up connection through a WAN, dial-up directly, data link switching (DLS),
4   cable docsys, and telephony.

1   8.   The method of claim 2, wherein the adjusting comprises
2   employing at least one of forward error correction and carouselling, and altering
3   at least one of bandwidth and quality of service.

1   9.   The method of claim 2, wherein the adjusting error correction
2   comprises dynamically regulating error correction.

1   10.   An apparatus comprising:
2   a transmitter to transmit data to at least one client;
3   a receiver to receive, from the at least one client, tracked and
4   reported transmitted data errors regarding the transmitted data based on a path
5   of the transmitted data and at least one of regional factors, dynamic factors,
6   and retransmission factors; and
7   a device coupled to the receiver to identify the at least one client
8   reporting the transmitted data errors and to analyze the transmitted data errors.

1   11.   The apparatus of claim 10, wherein the transmitter transmits

2   broadcasting data, and wherein the device is a broadcast center server.

1   12.   The apparatus of claim 10, wherein the device adjusts error

2   correction based on the analysis of the transmitted data errors, and transmits

3   data having the adjusted error correction, to the at least one client.

1   13.   The apparatus of claim 10, wherein the device to analyze the

2   transmitted data errors compares the transmitted data errors to at least one of

3   a predetermined tolerable transmitted data error level and a predetermined

4   tolerable transmitted data error level for a predetermined time period.

1   14.   The apparatus of claim 10, wherein the device assigns a

2   predetermined tolerable transmitted data error level and the receiver receives

3   tracked and reported transmitted data errors only when one of the transmitted

4   data errors exceeds the predetermined tolerable transmitted data error level,

5   and exceeds the predetermined tolerable transmitted data error level for a

6   predetermined time period.

1   15.   The apparatus of claim 10, wherein the transmitter transmits data

2   utilizing at least one of wireless conventional ground terrestrial transmission,

3   digital television (DTV) connection, analog and digital cable television (CATV),

4   satellite connection, direct broadcast satellite system (DBS), wide area network

5   (WAN) connection, and formats chosen by the Advanced Television Systems

6   Committee (ATSC) and National Television Standards Committee (NTSC), and

7   the receiver receives tracked and reported transmitted data errors utilizing at

8   least one of telephone dial-up connection through a WAN, dial-up directly, data

9   link switching (DLS), cable docsys, and telephony.

1   16.   The apparatus of claim 12, wherein the device dynamically

2   employs at least one of forward error correction and carouselling, and alters at

3   least one of bandwidth and quality of service.

1 17.   A machine-readable medium having instructions that when

2 executed by a processor cause the processor to perform operations

3 comprising:

4   transmitting data to at least one client;

5   receiving, from the at least one client, tracked and reported

6 transmitted data errors regarding the transmitting data, based on a path of the

7 transmitting data and at least one of regional factors, dynamic factors, and

8 retransmission factors;

9   identifying the at least one client reporting the transmitted data

10 errors; and

11   analyzing the transmitted data errors.

1 18.   The machine-readable medium of claim 17, further comprising:

2   adjusting error correction based on the analyzing the transmitted

3 data errors; and

4   transmitting data, having an adjusted error correction, to the at

5 least one client.

1 19.   The machine-readable medium of claim 17, wherein the

2 transmitting data comprises broadcasting data, and wherein the receiving

3 tracked and reported transmitted data errors comprises receiving by a

4 broadcast center server.

1 20.   The machine-readable medium of claim 17, wherein the analyzing

2 the transmitted data errors comprises comparing the transmitted data errors to

3 at least one of a predetermined tolerable transmitted data error level and a

4 predetermined tolerable transmitted data error level for a predetermined time

5 period.

1 21.   The machine-readable medium of claim 17, further comprising:

2   assigning a predetermined tolerable transmitted data error level;

3   wherein the receiving tracked and reported transmitted data

4 errors comprises receiving only when one of the transmitted data errors

5 exceeds the predetermined tolerable transmitted data error level and the

6   transmitted data errors exceeds the predetermined tolerable transmitted data

7   error level for a predetermined time period.

1   22.   The machine-readable medium of claim 17, wherein the

2   transmitting data comprises utilizing at least one of wireless conventional

3   ground terrestrial transmission, digital television (DTV) connection, analog and

4   digital cable television (CATV), satellite connection, direct broadcast satellite

5   system (DBS), wide area network (WAN) connection, and formats chosen by

6   the Advanced Television Systems Committee (ATSC) and National Television

7   Standards Committee (NTSC), and wherein the receiving tracked and reported

8   transmitted data errors comprises utilizing at least one of telephone dial-up

9   connection through a WAN, dial-up directly, data link switching (DLS), cable

10   docsys, and telephony.

1   23.   The machine-readable medium of claim 18, wherein the adjusting

2   comprises dynamically employing at least one of forward error correction and

3   carouselling, and altering at least one of bandwidth and quality of service.

1   24.   A method comprising:

2   receiving data from a transmitter;

3   tracking data errors regarding the receiving data, based on a path

4   of the receiving data and at least one of regional factors, dynamic factors, and

5   retransmission factors; and

6   reporting the data errors to a receiver.

1   25.   The method of claim 24, further comprising:

2   receiving data, from the transmitter, having an adjusted error

3   correction.

1   26.   The method of claim 24, wherein the receiving data comprises

2   receiving broadcast data, and wherein the reporting data errors comprises

3   reporting to a broadcast center server.

1   27.   The method of claim 24, further comprising:

2   receiving an assigned predetermined tolerable received data error

3   level;

4   wherein the tracking comprises identifying data errors that one of

5 exceeds the predetermined tolerable received data error level, and exceeds the

6 predetermined tolerable received data error level for a predetermined time

7 period; and

8   wherein the reporting comprises reporting only when one of the

9 data errors exceeds the predetermined tolerable received data error level and

10 the data errors exceeds the predetermined tolerable received data error level

11 for a predetermined time period.

1 28.   The method of claim 24, wherein receiving data comprises

2 utilizing at least one of wireless conventional ground terrestrial transmission,

3 digital television (DTV) connection, analog and digital cable television (CATV),

4 satellite connection, direct broadcast satellite system (DBS), wide area network

5 (WAN) connection, and formats chosen by the Advanced Television Systems

6 Committee (ATSC) and National Television Standards Committee (NTSC), and

7 wherein reporting data errors comprises utilizing at least one of telephone dial-

8 up connection through a WAN, dial-up directly, data link switching (DLS), cable

9 docsys, and telephony.

1 29.   An apparatus comprising:

2   a receiver to receive data from a transmitter, and track and report

3 received data errors to the transmitter, based on a path of data transmission

4 and at least one of regional factors, dynamic factors, and retransmission

5 factors.

1 30.   The apparatus of claim 29, wherein the receiver receives data

2 having one of error correction and an adjusted error correction based on the

3 reported received data errors.

1 31.   The apparatus of claim 29, wherein the receiver receives

2 broadcast data from a broadcast center server.

1 32.   The apparatus of claim 29, wherein the receiver receives an

2 assigned predetermined tolerable received data error level.

1 33.   The apparatus of claim 29, wherein the receiver identifies

2   received data errors that one of exceeds the predetermined tolerable received

3   data error level, and exceeds the predetermined tolerable received data error

4   level for a predetermined time period.

1   34.   The apparatus of claim 33, wherein the receiver reports only

2   when one of the received data errors exceeds the predetermined tolerable

3   received data error level and the received data errors exceeds the

4   predetermined tolerable received data error level for a predetermined time

5   period.

1   35.   The apparatus of claim 29, wherein the receiver receives the data

2   utilizing at least one of wireless conventional ground terrestrial transmission,

3   digital television (DTV) connection, analog and digital cable television (CATV),

4   satellite connection, direct broadcast satellite system (DBS), wide area network

5   (WAN) connection, and formats chosen by the Advanced Television Systems

6   Committee (ATSC) and National Television Standards Committee (NTSC), and

7   reports the received data errors utilizing at least one of telephone dial-up

8   connection through a WAN, dial-up directly, data link switching (DLS), cable

9   docsys, and telephony.

1   36.   A machine-readable medium having instructions that when

2   executed by a processor cause the processor to perform operations

3   comprising:

4   receiving data from a transmitter;

5   tracking data errors regarding the receiving data, based on a path

6   of the receiving data and at least one of regional factors, dynamic factors, and

7   retransmission factors; and

8   reporting the data errors to a receiver.

1   37.   The machine-readable medium of claim 36, further comprising:

2   receiving data, from the transmitter, having an adjusted error

3   correction.

1   38.   The machine-readable medium of claim 36, wherein the receiving

2   data comprises receiving broadcast data, and wherein the reporting data errors

3   comprises reporting to a broadcast center server.

1 39.   The machine-readable medium of claim 36, further comprising:

2   receiving an assigned predetermined tolerable received data error

3 level;

4   wherein the tracking comprises identifying data errors that one of

5 exceeds the predetermined tolerable received data error level, and exceeds the

6 predetermined tolerable received data error level for a predetermined time

7 period; and

8   wherein the reporting comprises reporting only when one of the

9 data errors exceeds the predetermined tolerable received data error level and

10 the data errors exceeds the predetermined tolerable received data error level

11 for a predetermined time period.

1 40.   The machine-readable medium of claim 36, wherein receiving

2 data comprises utilizing at least one of wireless conventional ground terrestrial

3 transmission, digital television (DTV) connection, analog and digital cable

4 television (CATV), satellite connection, direct broadcast satellite system (DBS),

5 wide area network (WAN) connection, and formats chosen by the Advanced

6 Television Systems Committee (ATSC) and National Television Standards

7 Committee (NTSC), and wherein reporting data errors comprises utilizing at

8 least one of telephone dial-up connection through a WAN, dial-up directly, data

9 link switching (DLS), cable docsys, and telephony.